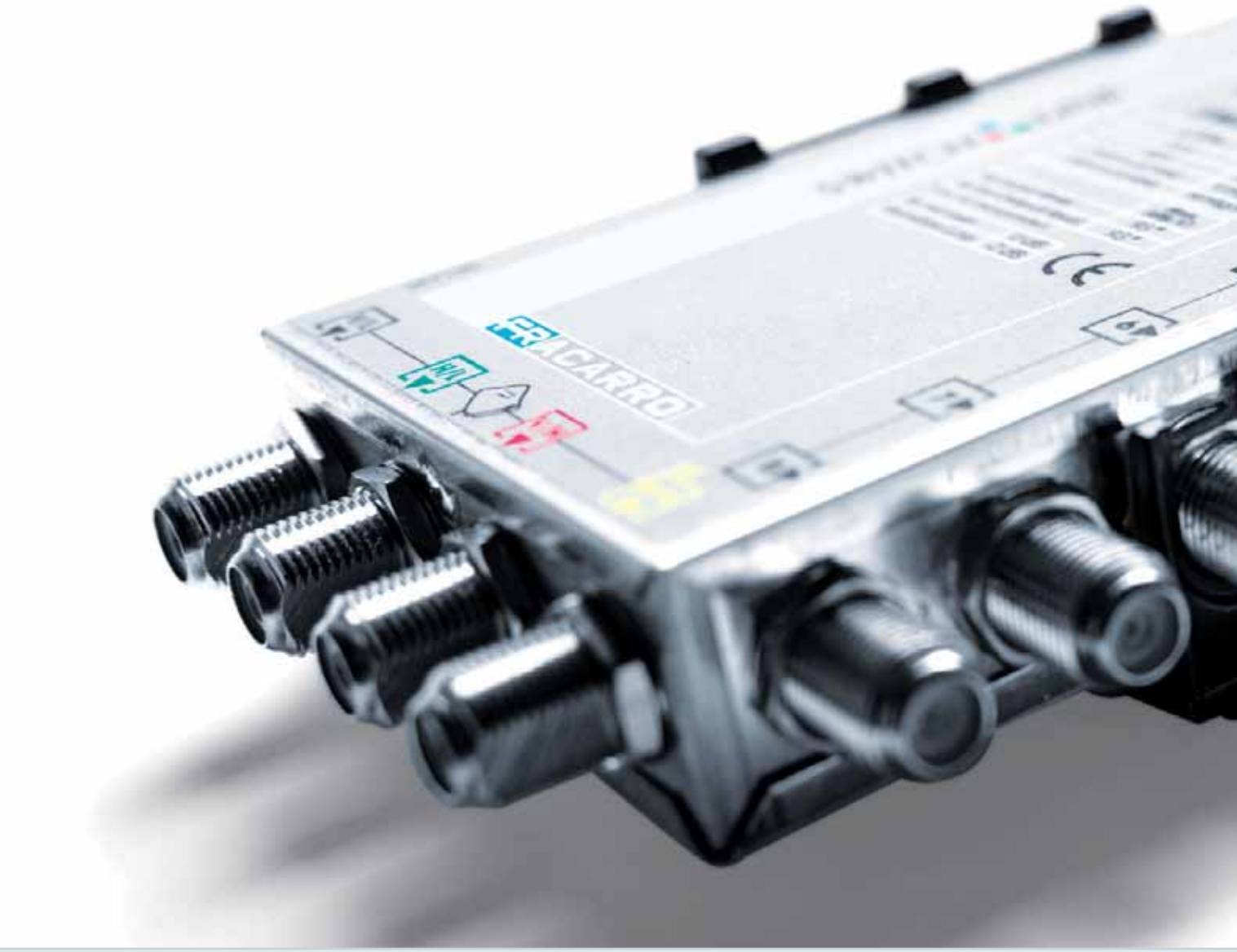
From 2 to **4 years**
Fracarro's warranty has been doubled

FRACARRO

Multiswitches

Choose your **solution**


CARRO

Description

SWITCH LINE is the complete range of multiswitches for the distribution of signals from a headend to multiple outlets. Fracarro has developed over 90 products to offer the best solution for every installation.

The **Compact** and **SCR ranges** are designed for small and medium sized distribution systems and the **Cascadable range** for large distribution systems. They are complemented by a full range of **Accessories**.

The inputs on the front of the switches are colour coded to make connection quick and easy:
black = vertical low polarisation
green = horizontal low polarisation
red = vertical high polarisation
yellow = horizontal high polarisation
white = terrestrial band

Index

Compact range

Inputs	5	9	17
Active TV	SWI95.. p. 7 SWI45.. p. 8		
Passive TV	SWI55.. p. 9 SWI55..A p. 10 SWI5..DC p. 11	SWI59..S p. 12 SWI59..A p. 13	SWI517..S p. 14

Cascadable range

Inputs	4	5	9	17
Active TV		SWI85.. p. 21-22	SWI89.. p. 26	
Passive TV	SWI44.. p. 17-18	SWI35.. p. 19-20	SWI39.. p. 23 SWI39..S p. 25	SWI317..S p. 27

SCR

Inputs	4	5
Active TV		SCR8514 p. 29
Passive TV	SCR4414 p. 29	

Accessories

AMP92..
p. 31

AMP..S
p. 32

SWA5...
p. 33

AMP8331A
p. 34

AMP2000
p. 34

SPS1750
p. 34

SWI4...
p. 35

SWI8...
p. 35

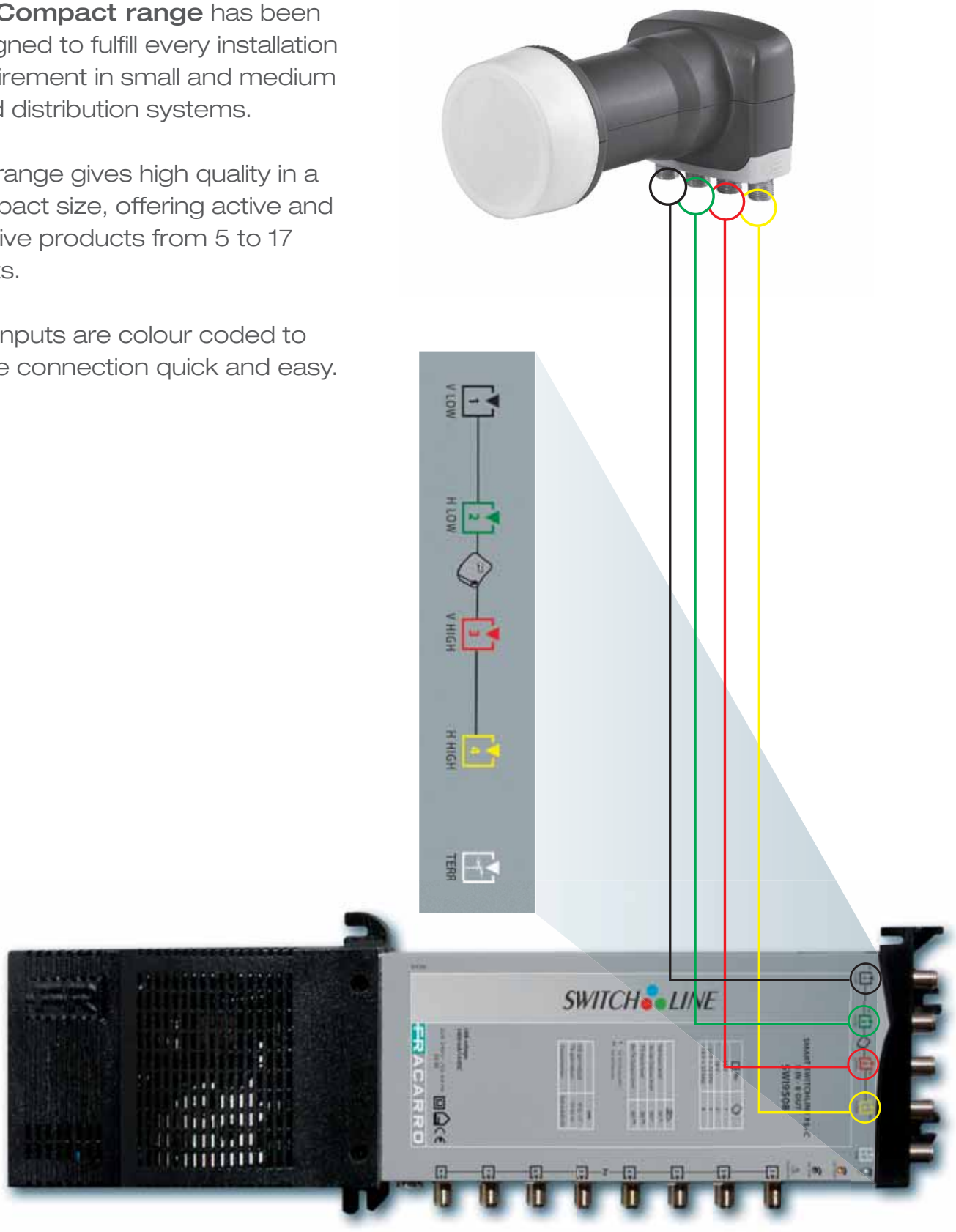
MiniDiSEqC
p. 35

Compact range

The **Compact range** has been designed to fulfill every installation requirement in small and medium sized distribution systems.

The range gives high quality in a compact size, offering active and passive products from 5 to 17 inputs.

The inputs are colour coded to make connection quick and easy.



SWI95.. Series
5 inputs (4 SAT + 1 TV)

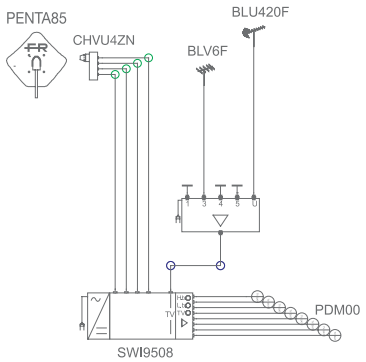
NEW

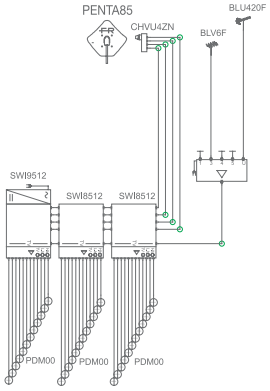
- TV gain adjustment
- 2 x Sat gain adjustments (high and low band)
- Fixed gain on the return path
- Full HD compliant
- 2A power supply for mixed systems (like SWI85.. MSW cascadable systems - see example)
- Standard colour coding for easy installation

8, 12, 16 Outputs

Item Code		SWI9508 271109	SWI9512 271110	SWI9516 271111
Inputs		5 (4 Sat + 1 TV)	5 (4 Sat + 1 TV)	5 (4 Sat + 1 TV)
Outputs		8	12	16
SAT				
Bandwidth	MHz	950-2150	950-2150	950-2150
Gain	dB	5 to 10	5 to 10	3 to 9
Gain adjustment	dB	15	15	15
Maximum output level	dBµV	110 (-35dBc 2 tones)	110 (-35dBc 2 tones)	110 (-35dBc 2 tones)
TV				
Bandwidth	MHz	85-862	85-862	85-862
Gain	dB	2 to 5	2 to 5	1 to 4
Gain adjustment	dB	20	20	20
Maximum output level	dBµV	100 (-60dBc 3 tones)	100 (-60dBc 3 tones)	98 (-60dBc 3 tones)
Return Path				
Bandwidth	MHz	5-65	5-65	5-65
Gain	dB	7	7	6
Maximum output level	dBµV	108 (-35dBc 2 tones)	108 (-35dBc 2 tones)	108 (-35dBc 2 tones)
General Parameters				
LNB power supply	mA	1550	1450	1360
Switching control	V, KHz	14/18, 0/22	14/18, 0/22	14/18, 0/22
Mains voltage	V, Hz	220-240, 50-60	220-240, 50-60	220-240, 50-60
Power consumption	mA	450	550	640
Dimensions	mm	380x127x60	455x127x60	530x127x60
Operating temperature	°C	-10 to +55	-10 to +55	-10 to +55

Installation **Example**





* UK switches: SWI9508/UK code 271106, SWI9512/UK code 271107, SWI9516/UK code 271108

Compact range

SWI45.. Series

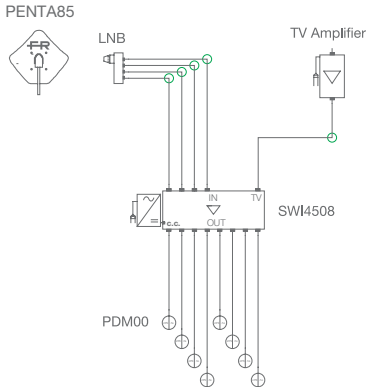
5 inputs (4 SAT + 1 TV)

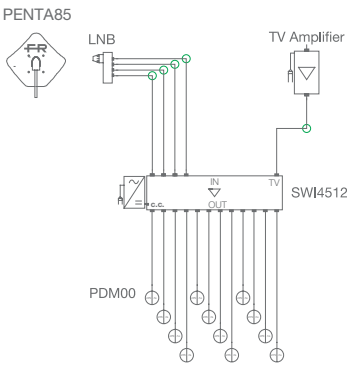
- Active TV/SAT band
- Compact size
- Full HD compliant
- Return path included
- Switch mode power supply guarantees high reliability
- Standard colour coding for easy installation

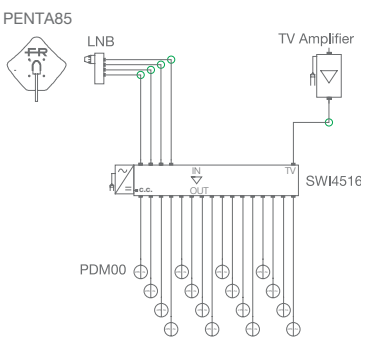
8, 12, 16 Outputs

Item Code		SWI4508 271101	SWI4512 271102	SWI4516 271103
Inputs		5 (4 Sat + 1 TV)	5 (4 Sat + 1 TV)	5 (4 Sat + 1 TV)
Outputs		8	12	16
SAT				
Bandwidth	MHz	950-2150	950-2150	950-2150
Gain	dB	0	0	0
Maximum output level	dBµV	95 (-35dBc 2 tones)	95 (-35dBc 2 tones)	95 (-35dBc 2 tones)
TV				
Bandwidth	MHz	85-862	85-862	85-862
Gain	dB	-4	-5	-6
Maximum output level	dBµV	95 (-60dBc 3 tones)	95 (-60dBc 3 tones)	95 (-60dBc 3 tones)
Return Path				
Bandwidth	MHz	5-65	5-65	5-65
Gain	dB	-16	-17	-19
Maximum output level	dBµV	-	-	-
General Parameters				
LNB power supply	mA/V	300/14	300/14	300/14
Switching control	V, KHz	14/18, 0-22	14/18, 0-22	14/18, 0-22
Mains voltage	V, Hz	220-240, 50-60	220-240, 50-60	220-240, 50-60
Dimensions	mm	245x125x45	325x125x45	405x125x45
Operating temperature	°C	-10 to +55	-10 to +55	-10 to +55

Installation **Example**







SWI55.. Series

5 inputs (4 SAT + 1 TV)

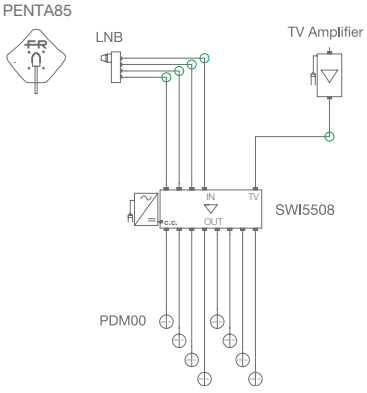
- Active SAT band
- Compact size
- Full HD compliant
- Return path included
- Switch mode power supply guarantees high reliability
- Standard colour coding for easy installation

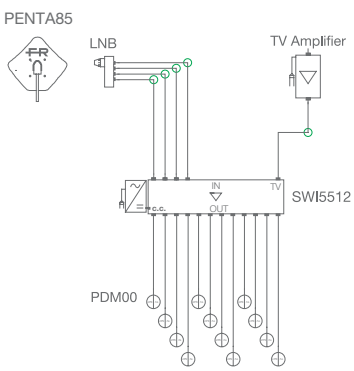
8, 12, 16 Outputs

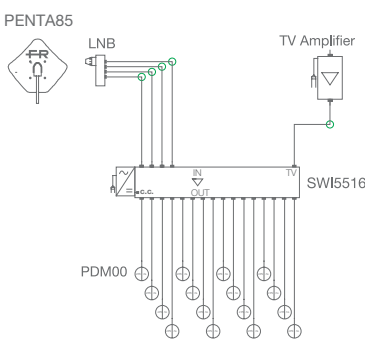
Item Code		SWI5508 271045	SWI5512 271046	SWI5516 271047
Inputs		5 (4 Sat + 1 TV)	5 (4 Sat + 1 TV)	5 (4 Sat + 1 TV)
Outputs		8	12	16
SAT				
Bandwidth	MHz	950-2200	950-2200	950-2200
Gain	dB	0	0	0
Maximum output level	dBµV	95 (-35dBc 2 tones)	95 (-35dBc 2 tones)	95 (-35dBc 2 tones)
TV				
Bandwidth	MHz	5-862*	5-862*	5-862*
Gain	dB	-16	-17	-19
Maximum output level	dBµV	-	-	-
General Parameters				
LNB power supply	mA/V	300/14	300/14	300/14
Switching control	V, KHz	14/18, 0-22	14/18, 0-22	14/18, 0-22
Mains voltage	V, Hz	220-240, 50-60	220-240, 50-60	220-240, 50-60
Dimensions	mm	245x125x45	325x125x45	405x125x45
Operating temperature	°C	-10 to +55	-10 to +55	-10 to +55

*Return path included

Installation **Example**







Compact range

SWI55..A Series

5 inputs (4 SAT + 1 TV)

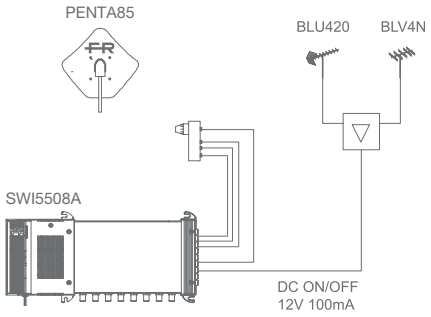
- Active satellite band to guarantee the quality of the satellite signal with long cable drops
- Dip switch to feed masthead amplifier
- Return path included
- Full HD compliant
- Switch mode power supply guarantees high reliability
- Standard colour coding for easy installation

6, 8, 12, 16 Outputs

Item Code		SWI5506A 271041	SWI5508A 271042	SWI5512A 271043	SWI5516A 271044
Inputs		5 (4 Sat + 1 TV)	5 (4 Sat + 1 TV)	5 (4 Sat + 1 TV)	5 (4 Sat + 1 TV)
Outputs		6	8	12	16
SAT					
Bandwidth	MHz	950-2150	950-2150	950-2150	950-2150
Gain	dB	+2 to +4 tilted	+2 to +4 tilted	+2 to +4 tilted	+2 to +4 tilted
Maximum output level	dBµV	90 (-35dBc 2 tones)	90 (-35dBc 2 tones)	90 (-35dBc 2 tones)	90 (-35dBc 2 tones)
TV					
Bandwidth	MHz	5-862*	5-862*	5-862*	5-862*
Gain	dB	-16	-17	-20	-20
Maximum output level	dBµV	-	-	-	-
General Parameters					
LNB power supply	mA/V	300/14	300/14	300/14	300/14
Switching control	V, KHz	14/18, 0-22	14/18, 0-22	14/18, 0-22	14/18, 0-22
Mains voltage	V, Hz	220-240, 50-60	220-240, 50-60	220-240, 50-60	220-240, 50-60
Power consumption	mA	25	25	25	25
Dimensions	mm	265x125x65	305x125x65	385x125x65	445x125x65
Operating temperature	°C	-10 to +55	-10 to +55	-10 to +55	-10 to +55

*Return path included

Installation **Example**



SWI5..DC Series

5 inputs (4 SAT + 1 TV)

NEW

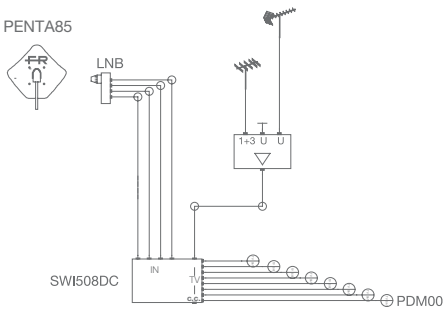
- The LNB can be powered from a decoder/receiver
- 12V automatic circuit to feed a masthead amplifier
- Return path included
- Additional connector to feed a high power masthead amplifer
- Full HD compliant
- Standard colour coding for easy installation

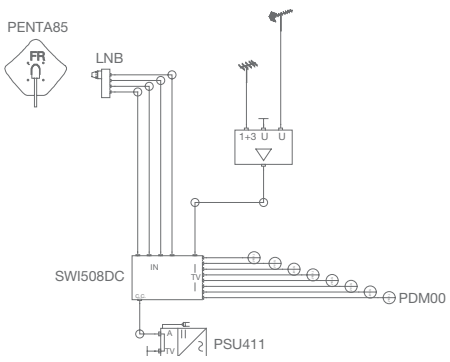
8, 16 Outputs

Item Code		SWI508DC 271115	SWI516DC 271117
Inputs		5 (4 Sat + 1 TV)	5 (4 Sat + 1 TV)
Outputs		8	16
SAT			
Bandwidth	MHz	950-2150	950-2150
Gain	dB	-2 to +1	-2 to +1
Maximum output level	dBµV	105 (-35dBc 2 tones)	105 (-35dBc 2 tones)
TV			
Bandwidth	MHz	5-862*	5-862*
Gain	dB	-14	-20
General Parameters			
Power consumption	mA	35	35
Dimensions	mm	220x118x30	390x118x30
Operating temperature	°C	-10 to +55	-10 to +55

*Return path included

Installation **Example**





Compact range

SWI59..S Series

9 inputs (8 SAT + 1 TV)

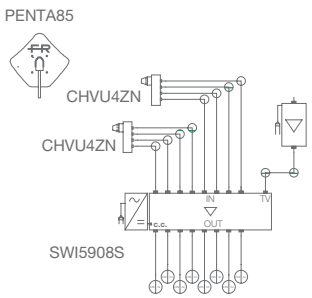
- Isolation between outputs >30dB
- Return path included
- Full HD compliant
- Bandwidth up to 2300MHz
- Standard colour coding for easy installation

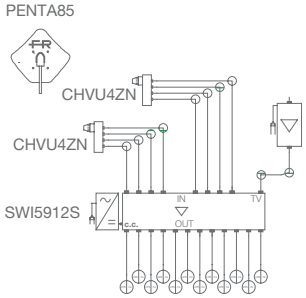
6, 8, 12, 16 Outputs

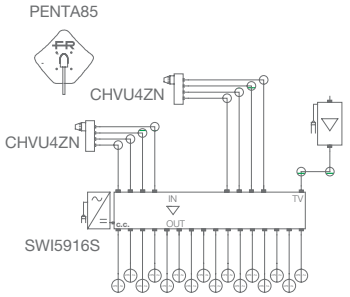
Item Code		SWI5906S 289787	SWI5908S 289788	SWI5912S 289789	SWI5916S 289790
Inputs		9 (8 Sat + 1 TV)	9 (8 Sat + 1 TV)	9 (8 Sat + 1 TV)	9 (8 Sat + 1 TV)
Outputs		6	8	12	16
SAT					
Bandwidth	MHz	950-2300	950-2300	950-2300	950-2300
Gain	dB	0	-2	-2	-3
Maximum output level	dBµV	95 (-35dBc 2 tones)	95 (-35dBc 2 tones)	95 (-35dBc 2 tones)	95 (-35dBc 2 tones)
TV					
Bandwidth	MHz	5-862*	5-862*	5-862*	5-862*
Gain	dB	-14	-15	-16	-18
Maximum output level	dBµV	-	-	-	-
General Parameters					
LNB power supply	mA/V	1000/12	1000/12	1000/12	1000/12
Switching control	V, KHz	14/18, 0/22 DISEqC 2.0	14/18, 0/22 DISEqC 2.0	14/18, 0/22 DISEqC 2.0	14/18, 0/22 DISEqC 2.0
Mains voltage	V, Hz	220-240, 50-60	220-240, 50-60	220-240, 50-60	220-240, 50-60
Power consumption	mA	40	40	40	40
Dimensions	mm	300x105x51	300x105x51	300x195x51	300x195x51
Operating temperature	°C	-20 to +60	-20 to +60	-20 to +60	-20 to +60

*Return path included

Installation **Example**







SWI59..A Series

9 inputs (8 SAT + 1 TV)

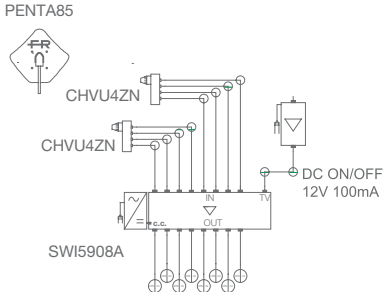
- Dip switch for each output to set the main satellite
- Dip switch to feed masthead amplifier
- Active satellite band to guarantee the quality of the satellite signal with long cable drops
- Return path included
- Full HD compliant
- Switch mode power supply guarantees high reliability
- Standard colour coding for easy installation

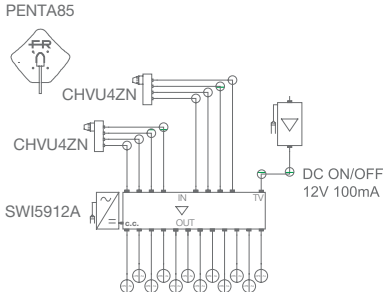
8, 12, 16 Outputs

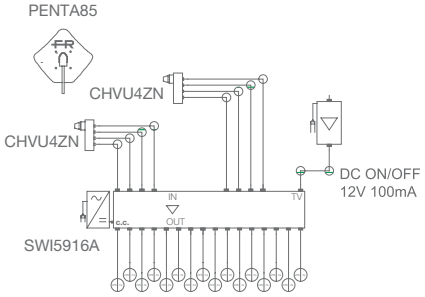
Item Code		SWI5908A 271052	SWI5912A 271053	SWI5916A 271054
Inputs		9 (8 Sat + 1 TV)	9 (8 Sat + 1 TV)	9 (8 Sat + 1 TV)
Outputs		8	12	16
SAT				
Bandwidth	MHz	950-2150	950-2150	950-2150
Gain	dB	3	2	4
Maximum output level	dBµV	90 (-35dBc 2 tones)	90 (-35dBc 2 tones)	90 (-35dBc 2 tones)
TV				
Bandwidth	MHz	5-862*	5-862*	5-862*
Gain	dB	-16	-18	-20
Maximum output level	dBµV	-	-	-
General Parameters				
LNB power supply	mA/V	600/14	600/14	600/14
Switching control	V, KHz	14/18, 0-22 DISEqC 2.0	14/18, 0-22 DISEqC 2.0	14/18, 0-22 DISEqC 2.0
Mains voltage	V, Hz	220-240, 50-60	220-240, 50-60	220-240, 50-60
Power consumption	mA	25	25	25
Dimensions	mm	305x125x65	385x125x65	445x125x65
Operating temperature	°C	-10 to +55	-10 to +55	-10 to +55

*Return path included

Installation **Example**







Compact range

SWI517..S Series

17 inputs (16 SAT + 1 TV)

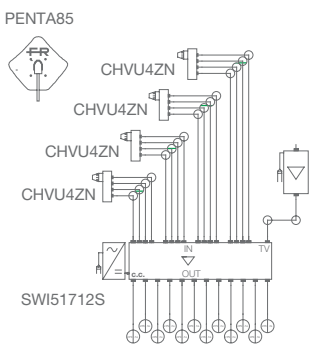
- Isolation between outputs >30dB
- Return path included
- Full HD compliant
- Bandwidth up to 2300MHz
- Standard colour coding for easy installation

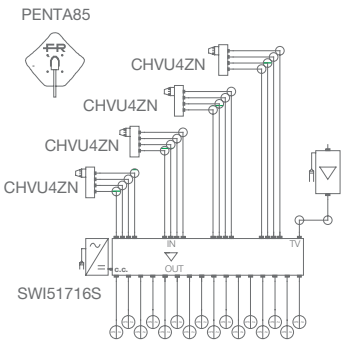
6, 12, 16 Outputs

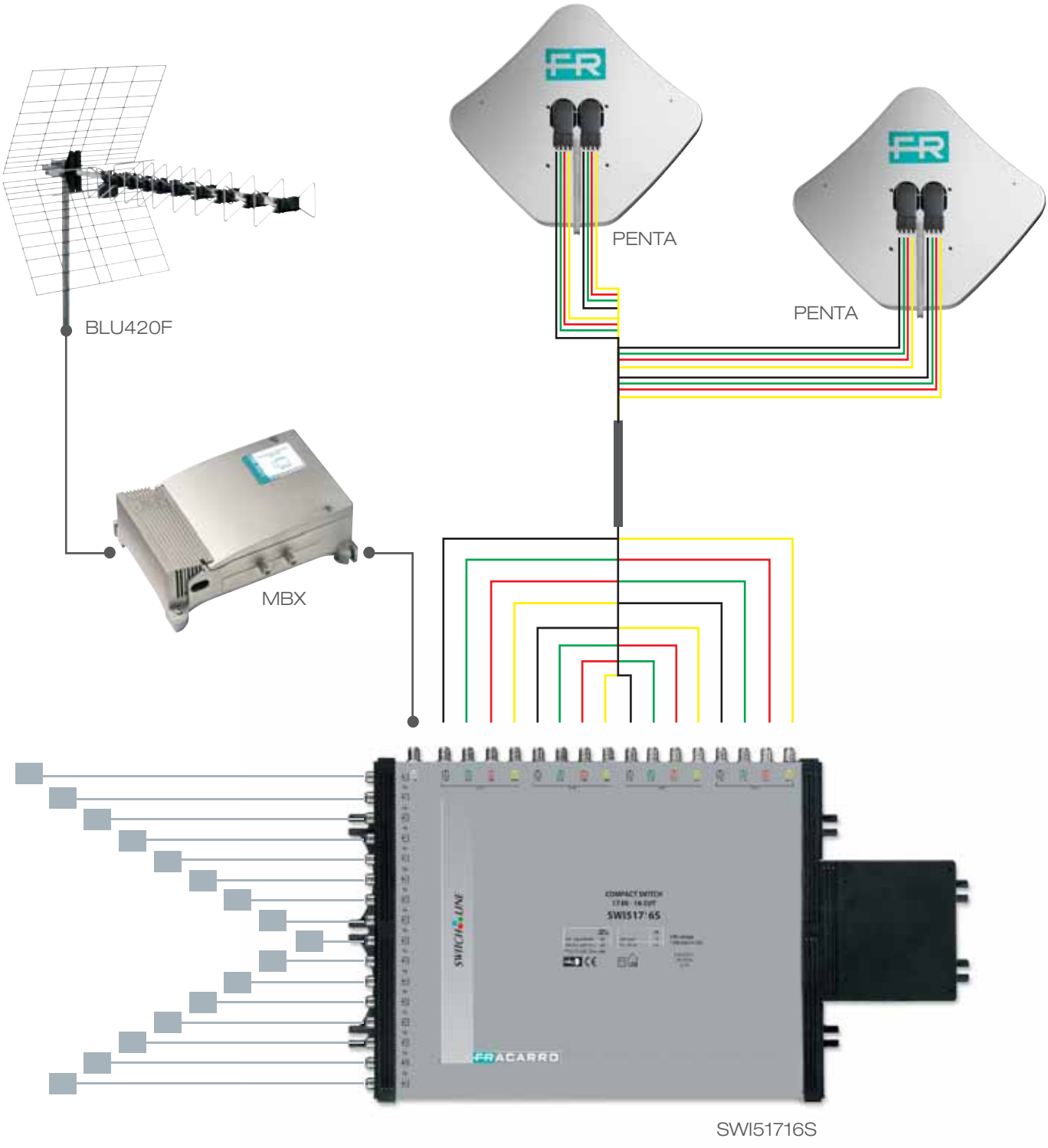
Item Code		SWI51706S 289791	SWI51712S 289792	SWI51716S 289793
Inputs		17 (16 Sat + 1 TV)	17 (16 Sat + 1 TV)	17 (16 Sat + 1 TV)
Outputs		6	12	16
SAT				
Bandwidth	MHz	950-2300	950-2300	950-2300
Gain	dB	-3	-3	-5
Maximum output level	dBµV	95 (-35dBc 2 tones)	95 (-35dBc 2 tones)	95 (-35dBc 2 tones)
TV				
Bandwidth	MHz	5-862*	5-862*	5-862*
Gain	dB	-16	-18	-21
Maximum output level	dBµV	-	-	-
General Parameters				
LNB power supply	mA/V	1000/12	1000/12	1000/12
Switching control	V, KHz	14/18, 0/22 DISEqC 2.0	14/18, 0/22 DISEqC 2.0	14/18, 0/22 DISEqC 2.0
Mains voltage	V, Hz	220-240, 50-60	220-240, 50-60	220-240, 50-60
Power consumption	mA	60	60	60
Dimensions	mm	430x105x51	430x195x51	430x240x51
Operating temperature	°C	-20 to +60	-20 to +60	-20 to +60

*Return path included

Installation **Example**





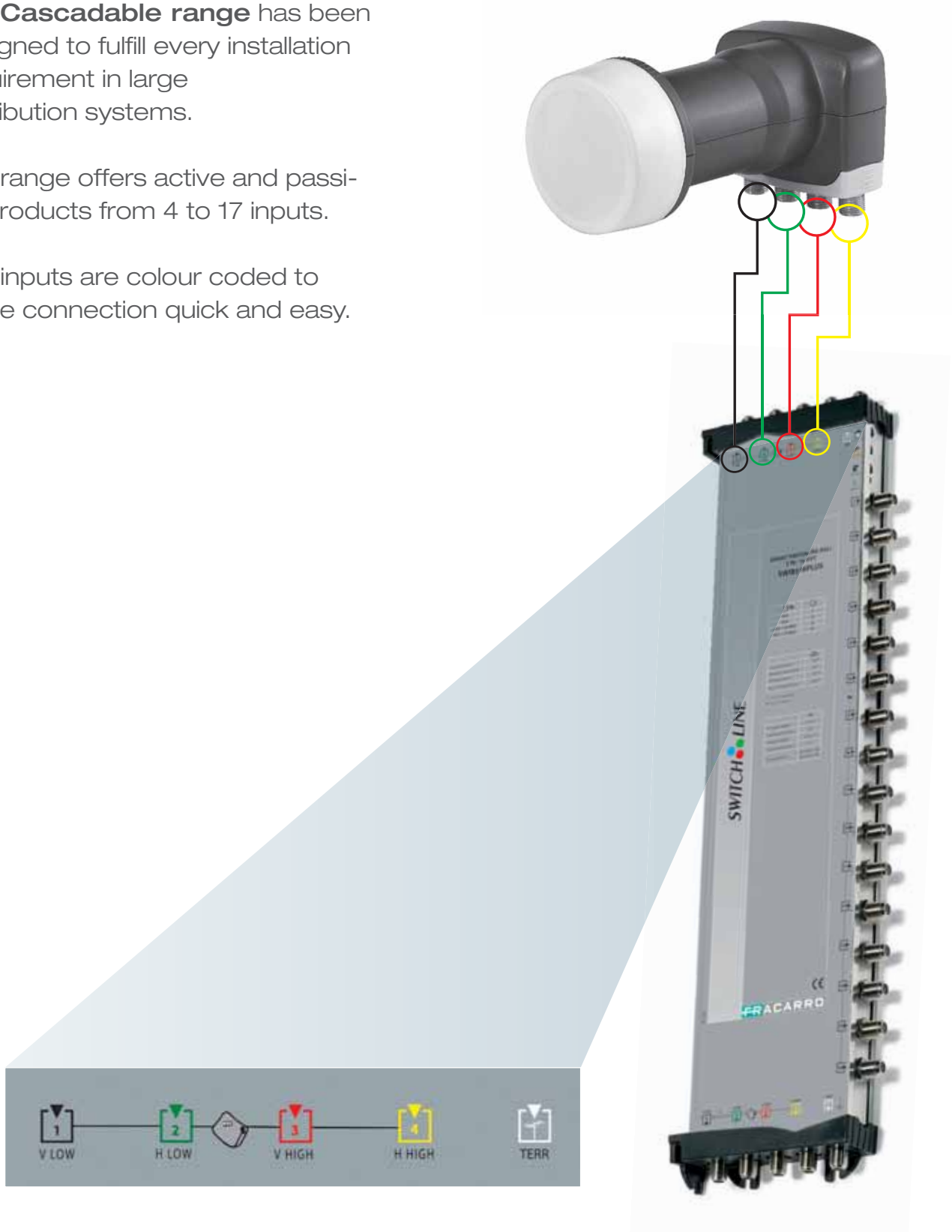

PENTA
PENTA
BLU420F
MBX
SWI51716S

Cascadable range

The **Cascadable range** has been designed to fulfill every installation requirement in large distribution systems.

The range offers active and passive products from 4 to 17 inputs.

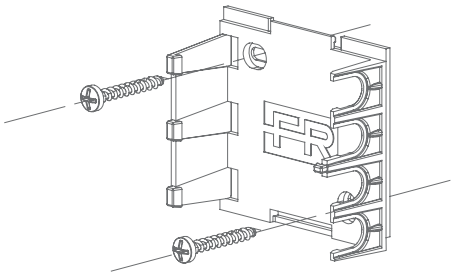
The inputs are colour coded to make connection quick and easy.

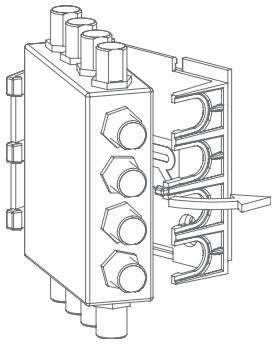


SWI44.. Series

4 SAT inputs

- The LNB can be fed directly from the decoder
- Three different levels of attenuation -17dB, -8dB and 0dB for balancing signal
- Full HD compliant
- Plastic support for quick and easy installation
- Standard colour coding for easy installation





4 Outputs

Item Code	SWI4404-00 271081	SWI4404-08 271082	SWI4404-17 271083
Inputs	4	4	4
Outputs	4	4	4
SAT			
Bandwidth MHz	950-2150	950-2150	950-2150
Gain dB	0	-8	-17
Insertion loss dB	2	2	2
Max. output level dBµV	105	105	-
Power consumption mA	35	35	15
Dimensions mm		90x70x20	
Operating temperature °C	-10 to +55	-10 to +55	-10 to +55

6 Outputs

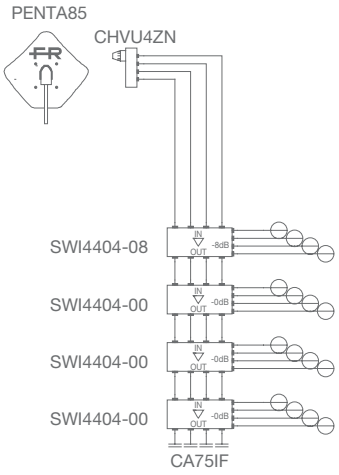
Item Code	SWI4406-00 271084	SWI4406-08 271085	SWI4406-17 271086
Inputs	4	4	4
Outputs	6	6	6
SAT			
Bandwidth MHz	950-2150	950-2150	950-2150
Gain dB	0	-8	-17
Insertion loss dB	2	2	2
Max. output level dBµV	105	105	-
Power consumption mA	35	35	15
Dimensions mm		119x70x20	
Operating temperature °C	-10 to +55	-10 to +55	-10 to +55

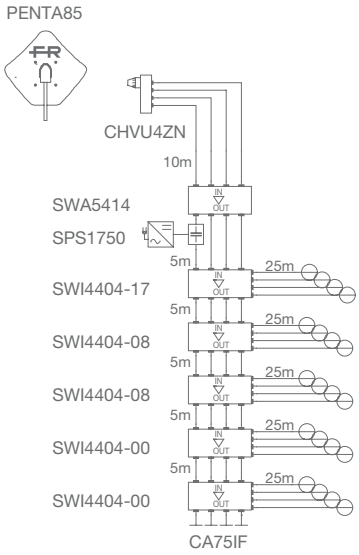
Cascadable range

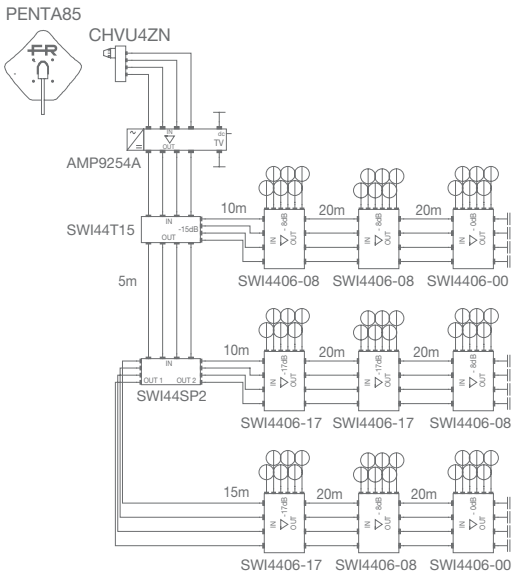
8 Outputs NEW

Item Code	SWI4408-00 271087	SWI4408-08 271088	SWI4408-17 271089
Inputs	4	4	4
Outputs	8	8	8
SAT			
Bandwidth MHz	950-2150	950-2150	950-2150
Gain dB	0	-8	-17
Insertion loss dB	3	3	3
Max. output level dBµV	105 (-35dBc 2 tones)	105 (-35dBc 2 tones)	-
Switching control V, KHz	14/18, 0/22 DISEqC 2.0		
Power consumption mA	35	35	15
Dimensions mm	150x70x20		
Operating temperature °C	-10 to +55	-10 to +55	-10 to +55

Installation **Example**







SWI35.. Series

5 inputs (4 SAT + 1 TV)

- Three different levels of attenuation on SAT: -17dB, -8dB and 0dB for balancing signal
- Available terminal version with 0dB attenuation on SAT
- Return path available on all switches
- With the MiniDiSEqC and the Tool Kit it is possible to distribute up to 4 satellites (16 polarities) + TV
- The MiniDiSEqC with 2 SAT inputs has a dip-switch to select the main satellite input
- Full HD compliant
- Standard colour coding for easy installation

4 Outputs

Item Code	SWI3504P 271013-C	SWI3504A10 271008	SWI3504A 271011-C	SWI3504T 271015-C
Inputs	5 (4 Sat + 1 TV)	5 (4 Sat + 1 TV)	5 (4 Sat + 1 TV)	5 (4 Sat + 1 TV)
Outputs	4	4	4	4
SAT				
Bandwidth MHz	950-2150	950-2150	950-2150	950-2150
Gain dB	-20 to -16 tilted	-8	-2 to +1 tilted	-1 to +2 tilted
Insertion loss dB	-2	-2	-2	-
Max. output level dBµV	-	110 (-35dBc 2 tones)	105 (-35dBc 2 tones)	105 (-35dBc 2 tones)
TV				
Bandwidth MHz	5-862*	5-862*	5-862*	5-862*
Gain dB	-19	-15	-15	-12
Insertion loss dB	-2.5	-3	-3.5	-
General Parameters				
Power consumption mA	15	40	35	35
Dimensions mm	120x118x30	120x118x30	120x118x30	120x118x30
Operating temperature °C	-10 to +55	-10 to +55	-10 to +55	-10 to +55

*Return path included

6 Outputs

Item Code	SWI3506P 271014-C	SWI3506A10 271009	SWI3506A 271012-C	SWI3506T 271016-C
Inputs	5 (4 Sat + 1 TV)	5 (4 Sat + 1 TV)	5 (4 Sat + 1 TV)	5 (4 Sat + 1 TV)
Outputs	6	6	6	6
SAT				
Bandwidth MHz	950-2150	950-2150	950-2150	950-2150
Gain dB	-21 to -16 tilted	-8	-3 to +1 tilted	-2 to +2 tilted
Insertion loss dB	-2.5	-2.5	-2.5	-
Max. output level dBµV	-	110 (-35dBc 2 tones)	105 (-35dBc 2 tones)	105 (-35dBc 2 tones)
TV				
Bandwidth MHz	5-862*	5-862*	5-862*	5-862*
Gain dB	-19	-15	-15	-13
Insertion loss dB	-4	-4.5	-5	-
General Parameters				
Power consumption mA	15	40	35	35
Dimensions mm	160x118x30	160x118x30	160x118x30	160x118x30
Operating temperature °C	-10 to +55	-10 to +55	-10 to +55	-10 to +55

*Return path included

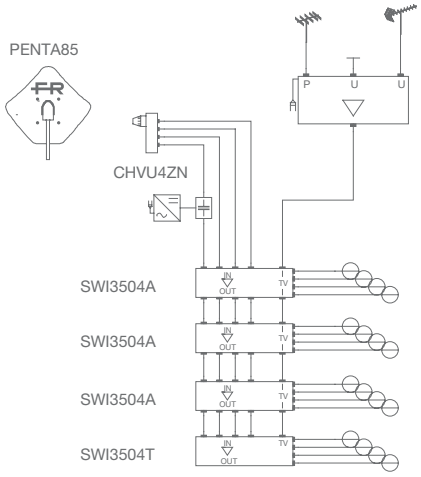
Cascadable range

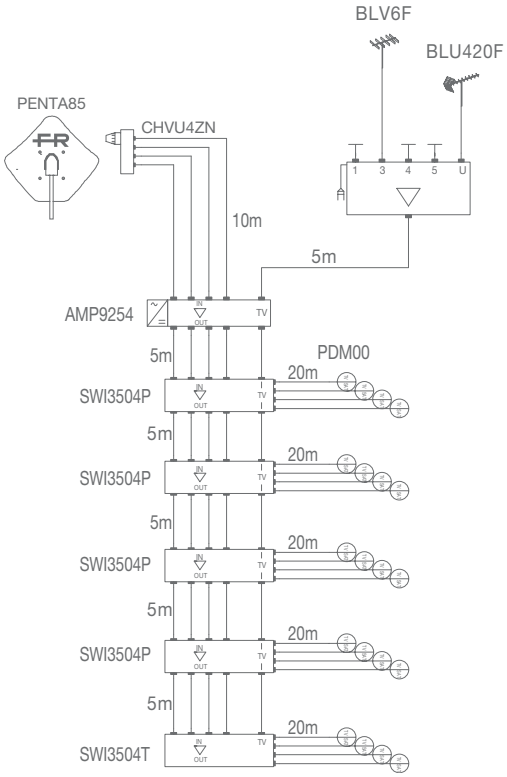
8 Outputs

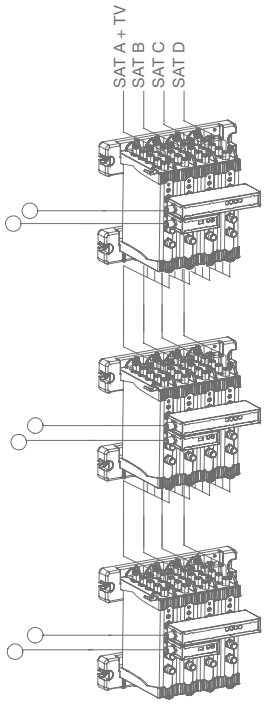
Item Code	SWI3508P 271018-C	SWI3508A10 271010	SWI3508A 271017-C	SWI3508T 271019-C
Inputs	5 (4 Sat + 1 TV)	5 (4 Sat + 1 TV)	5 (4 Sat + 1 TV)	5 (4 Sat + 1 TV)
Outputs	8	8	8	8
SAT				
Bandwidth MHz	950-2150	950-2150	950-2150	950-2150
Gain dB	-21 to -16 tilted	-8	-2 to +1 tilted	-2 to +1 tilted
Insertion loss dB	-3.5	-3.5	-3.5	-
Max. output level dBµV	-	110 (-35dBc 2 tones)	105 (-35dBc 2 tones)	105 (-35dBc 2 tones)
TV				
Bandwidth MHz	5-862*	5-862*	5-862*	5-862*
Gain dB	-25	-22	-22	-14
Insertion loss dB	-1	-3	-3	-
General Parameters				
Power consumption mA	15	40	35	35
Dimensions mm	220x118x30	220x118x30	220x118x30	220x118x30
Operating temperature °C	-10 to +55	-10 to +55	-10 to +55	-10 to +55

*Return path included

Installation **Example**







SWI85..PLUS Series
5 inputs (4 SAT + 1 TV)

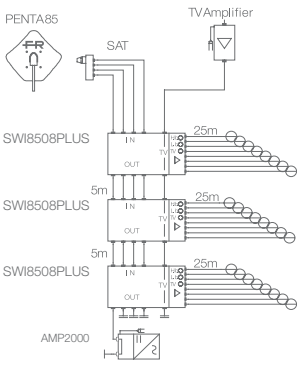
NEW

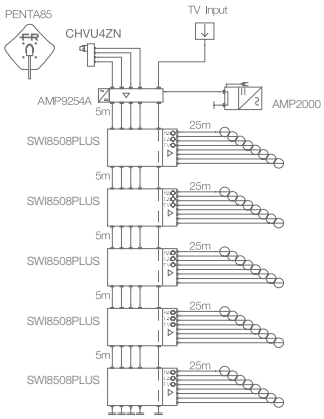
- Very high electrical performance
- Optimized energy consumption
- Very high isolation (45dB)
- Capable of 100m loop length
- TV gain adjustment
- 2 x SAT gain adjustments (high and low band)
- Fixed gain on the return path
- Full HD compliant
- Can be used with SWI95.. to create a mixed system (see page 7)
- Standard colour coding for easy installation

8, 12, 16 Outputs

Item Code		SWI8508PLUS 271055	SWI8512PLUS 271056	SWI8516PLUS 271063
Inputs		5 (4 Sat + 1 TV)	5 (4 Sat + 1 TV)	5 (4 Sat + 1 TV)
Outputs		8	12	16
SAT				
Bandwidth	MHz	950-2150		
Gain	dB	-4 to 0		-3 to + 1
Gain adjustment	dB	15		
Maximum output level	dBµV	110 (-35dBc 2 tones)		108 (-35dBc 2 tones)
Insertion loss	dB	2	2.5	2.5
TV				
Bandwidth	MHz	85-862		
Gain	dB	-8 to -4		-9 to -5
Gain adjustment	dB	20		
Maximum output level	dBµV	100 (-60dBc 3 tones)		97 (-60dBc 3 tones)
Insertion loss	dB	1.5	2	2
Return Path				
Bandwidth	MHz	5-65		
Gain	dB	-4	-5	-6
Maximum output level	dBµV	95 (-35dBc 2 tones)		
Insertion loss	dB	1	1	1
General Parameters				
Mains voltage	V	14/18		
Switching control	V, KHz	14/18, 0/22		
Power consumption	mA	280 (14V), 220 (18V)		
Dimensions	mm	260x120x30	340x120x30	425x120x30
Operating temperature	°C	-10 to +55	-10 to +55	-10 to +55

Installation **Example**





Cascadable range

SWI85..STPLUS Series
5 inputs (4 SAT + 1 TV)

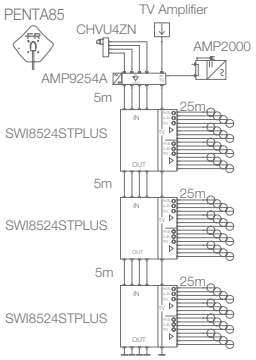
NEW

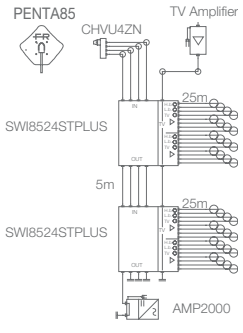
- Very high electrical performance
- Optimized energy consumption
- Very high isolation (45dB)
- Capable of 100m loop length
- TV gain adjustment
- 2 x SAT gain adjustments (high and low band)
- Fixed gain on the return path
- Full HD compliant
- Can be used with SWI95.. to create a mixed system (see page 7)
- Standard colour coding for easy installation

24, 32 Outputs

Item Code		SWI8524STPLUS 271066	SWI8532STPLUS 271058
Inputs		5 (4 Sat + 1 TV)	5 (4 Sat + 1 TV)
Outputs		24	32
SAT			
Bandwidth	MHz	950-2150	
Gain	dB	-6 to 0	-5 to +1
Gain adjustment	dB	15	
Maximum output level	dBµV	110 (-35dBc 2 tones)	108 (-35dBc 2 tones)
Insertion loss	dB	5	5
TV			
Bandwidth	MHz	85-862	
Gain	dB	-9 to -6	-11 to -5
Gain adjustment	dB	20	
Maximum output level	dBµV	100 (-60dBc 3 tones)	97 (-60dBc 3 tones)
Insertion loss	dB	4	4
Return Path			
Bandwidth	MHz	5-65	
Gain	dB	-5	-6
Maximum output level	dBµV	95 (-35dBc 2 tones)	
Insertion loss	dB	2	2
General Parameters			
LNB power supply	mA/V	14/18	
Switching control	V, KHz	14/18, 0/22	
Power consumption	mA	560 (14V), 440 (18V)	
Dimensions	mm	352x120x60	440x120x60
Operating temperature	°C	-10 to +55	-10 to +55

Installation **Example**





SWI39.. Series

9 inputs (8 SAT + 1 TV)

- 2 different levels of attenuation on SAT: -17dB and 0dB
- Available terminal version with 0dB attenuation on SAT
- A dip-switch is available on each output to select the main satellite
- Return path included on all switches
- Full HD compliant
- Standard colour coding for easy installation

4 Outputs

Item Code	SWI3904P 271022	SWI3904A 271021	SWI3904T 271023
Inputs	9 (8 Sat + 1 TV)	9 (8 Sat + 1 TV)	9 (8 Sat + 1 TV)
Outputs	4	4	4
SAT			
Bandwidth MHz	950-2150	950-2150	950-2150
Gain dB	-20 to -16 tilted	0 to +2 tilted	+2 to +4 tilted
Insertion loss dB	-3	-3	-
Max. output level dBµV	-	105 (-35dBc 2 tones)	105 (-35dBc 2 tones)
TV			
Bandwidth MHz	5-862*	5-862*	5-862*
Gain dB	-18	-15	-10
Insertion loss dB	-4	-4	-
General Parameters			
Switching control V, KHz	14/18, 0/22, DiSEqC 2.0	14/18, 0/22, DiSEqC 2.0	14/18, 0/22, DiSEqC 2.0
Power consumption mA	35	50	50
Dimensions mm	125x125x52	125x125x52	125x125x52
Operating temperature °C	-10 to +55	-10 to +55	-10 to +55

*Return path included

6 Outputs

Item Code	SWI3906P 289787	SWI3906A 289788	SWI3906T 289789
Inputs	9 (8 Sat + 1 TV)	9 (8 Sat + 1 TV)	9 (8 Sat + 1 TV)
Outputs	6	6	6
SAT			
Bandwidth MHz	950-2150	950-2150	950-2150
Gain dB	-22 to -17 tilted	-3 to 0 tilted	0 to +3 tilted
Insertion loss dB	-3	-3	-
Max. output level dBµV	-	105 (-35dBc 2 tones)	105 (-35dBc 2 tones)
TV			
Bandwidth MHz	5-862*	5-862*	5-862*
Gain dB	-19	-16	-13
Insertion loss dB	-3	-4	-
General Parameters			
Switching control V, KHz	14/18, 0/22, DiSEqC 2.0	14/18, 0/22, DiSEqC 2.0	14/18, 0/22, DiSEqC 2.0
Power consumption mA	35	50	50
Dimensions mm	170x125x52	170x125x52	170x125x52
Operating temperature °C	-10 to +55	-10 to +55	-10 to +55

*Return path included

8 Outputs

Item Code	SWI3908P 271018	SWI3908A 271027	SWI3908T 271029
Inputs	9 (8 Sat + 1 TV)	9 (8 Sat + 1 TV)	9 (8 Sat + 1 TV)
Outputs	8	8	8
SAT			
Bandwidth MHz	950-2150	950-2150	950-2150
Gain dB	-21 to -16 tilted	-2 to 0 tilted	+1 to +3 tilted
Insertion loss dB	-4	-4	-
Max. output level dBµV	-	105 (-35dBc 2 tones)	105 (-35dBc 2 tones)
TV			
Bandwidth MHz	5-862*	5-862*	5-862*
Gain dB	-25	-22	-15
Insertion loss dB	-2	-3	-
General Parameters			
Switching control V, KHz	14/18, 0/22, DiSEqC 2.0	14/18, 0/22, DiSEqC 2.0	14/18, 0/22, DiSEqC 2.0
Power consumption mA	35	50	50
Dimensions mm	210x125x52	210x125x52	210x125x52
Operating temperature °C	-10 to +55	-10 to +55	-10 to +55

*Return path included

Cascadable range

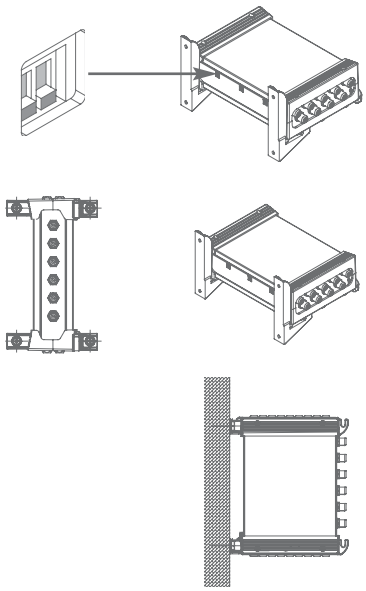
Adjustable tap

9 inputs (8 SAT + 1 TV)

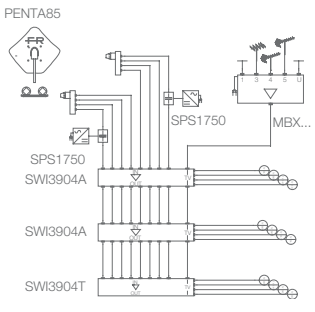
- Enables the creation of a 9 inputs active TV system for cascadable systems
- Adjustable gain on SAT and terrestrial tap outputs
- Low insertion loss on trunk path
- Active return channel
- Full HD compliant
- Plastic support for quick and easy installation
- Standard colour coding for easy installation

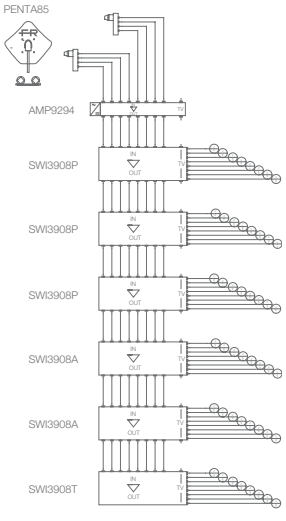
Item Code		SWI39AT 271020
Inputs		9 (8 Sat + 1 TV)
Outputs		9 (8 Sat + 1 TV)
Tapped outputs		9 (8 Sat + 1 TV)
SAT		
Bandwidth	MHz	950-2150
Gain	dB	-1 ± 2
Gain adjustment	dB	12
Maximum output level	dBµV	112 (-35dBc 2 tones)
Insertion loss	dB	1.5
TV		
Bandwidth	MHz	85-862
Gain	dB	10 to 15 tilted
Gain adjustment	dB	15
Maximum output level	dBµV	116 (-60dBc 3 tones)
Insertion loss	dB	1.5
Return Path		
Bandwidth	MHz	5-65
Gain	dB	10
Maximum output level	dBµV	106 (-35dBc 2 tones)
Insertion loss	dB	1.5
General Parameters		
Power consumption	mA	320(14V)
Isolation between outputs	dB	30
Dimensions	mm	117x132x55
Operating temperature	°C	-10 to +55

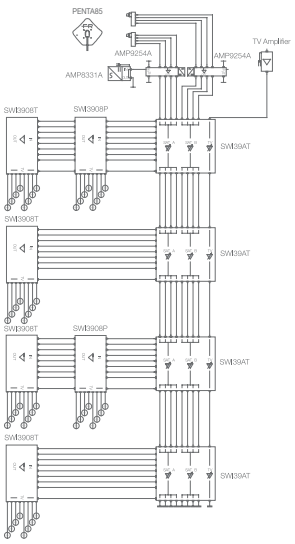
Plastic bracket for installing the switches in different positions



Installation **Example**







SWI39..S Series

9 inputs (8 SAT + 1 TV)

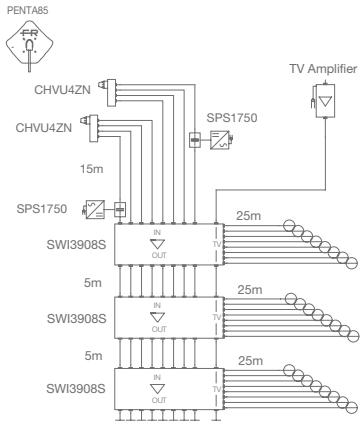
- Isolation between outputs >30dB
- Return path included
- Full HD compliant
- Bandwidth up to 2300MHz
- Standard colour coding for easy installation

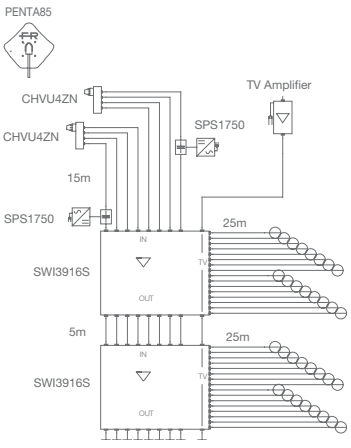
6, 8, 12, 16 Outputs

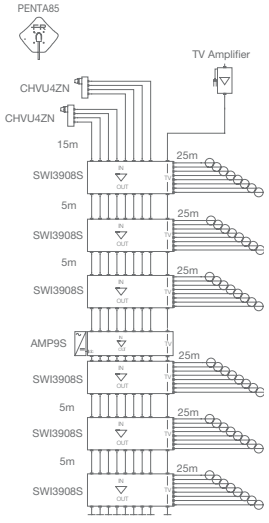
Item Code		SWI3906S 289783	SWI3908S 289784	SWI3912S 289785	SWI3916S 289786
Inputs		9 (8 Sat + 1 TV)	9 (8 Sat + 1 TV)	9 (8 Sat + 1 TV)	9 (8 Sat + 1 TV)
Outputs		6	8	12	16
SAT					
Bandwidth	MHz	950-2300	950-2300	950-2300	950-2300
Gain	dB	0	0	-2	-1
Maximum output level	dBµV	100 (-35dBc tones)	100 (-35dBc tones)	100 (-35dBc tones)	100 (-35dBc tones)
Insertion loss	dB	2	2	4	4
TV					
Bandwidth	MHz	5-862*	5-862*	5-862*	5-862*
Gain	dB	-14	-15	-18	-21
Insertion loss	dB	4	5	10	12
General Parameters					
Switching control	V, KHz	14/18, 22 DISEqC 2.0	14/18, 22 DISEqC 2.0	14/18, 22 DISEqC 2.0	14/18, 22 DISEqC 2.0
Power consumption	mA	40	40	40	40
Dimensions	mm	215x105x40	215x105x40	215x195x40	215x195x40
Operating temperature	°C	-20 to +60	-20 to +60	-20 to +60	-20 to +60

*Return path included

Installation **Example**







Cascadable range

Serie SWI89.. Series
9 inputs (8 SAT + 1 TV)

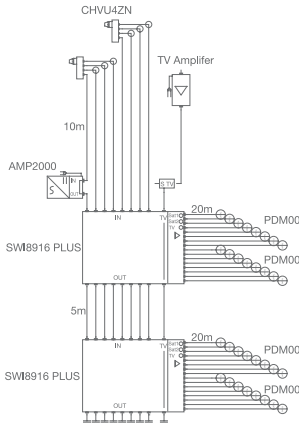
NEW

- Very high electrical performance
- Optimised energy consumption
- Very high isolation (45dB)
- Capable of 100m loop lenght
- TV gain adjustment
- 2 gain adjustments for SAT (SAT A and SAT B) signal
- Fixed gain on the return path
- Low consumption
- Full HD compliant
- Standard colour coding for easy installation

8, 12, 16 Outputs

Item Code		SWI8908PLUS 271067	SWI8912PLUS 271068	SWI8916PLUS 271069
Inputs		9 (8 Sat + 1 TV)	9 (8 Sat + 1 TV)	9 (8 Sat + 1 TV)
Outputs		8	12	16
SAT				
Bandwidth	MHz	950-2150		
Gain	dB	-3 to +3	-4 to +2	-6 to 0
Gain adjustment	dB	15		
Maximum output level	dBµV	110 (-35dBc 2 tones)		
Insertion loss	dB	2	2.5	3
TV				
Bandwidth	MHz	85-862		
Gain	dB	-7 to -3	-9 to -4	-11 to -5
Gain adjustment	dB	20	20	20
Maximum output level	dBµV	100 (-60dBc 3 tones)		
Insertion loss	dB	2	2	2
Return Path				
Bandwidth	MHz	5-65		
Gain	dB	-3	-5	-7
Maximum output level	dBµV	95	97	97
Insertion loss	dB	1	2	2
General Parameters				
Switching control	V, KHz	14/18, 22 DISEq 2.0		
Power consumption	mA	350(14V), 280(18V)		
Mains voltage	V	14 - 18		
Dimensions	mm	260x180x30	340x180x30	425x180x30
Operating temperature	°C	-10 to +55	-10 to +55	-10 to +55

Installation **Example**



SWI317..S Series

17 inputs (16 SAT + 1 TV)

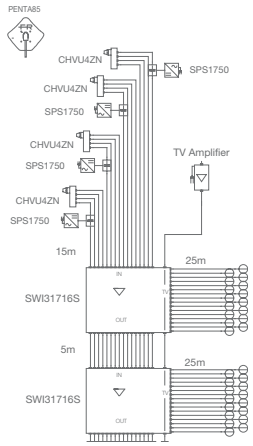
- Isolation between outputs >30dB
- Return path included
- Full HD compliant
- Bandwidth up to 2300MHz
- Standard colour coding for easy installation

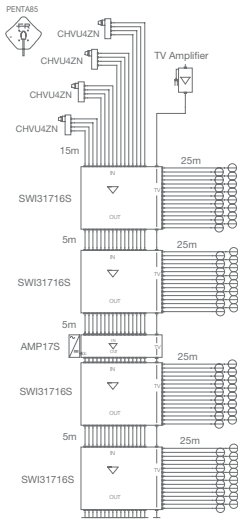
6, 12, 16 Outputs

Item Code		SWI31706S 289780	SWI31712S 289781	SWI31716S 289782
Inputs		17 (16 Sat + 1 TV)	17 (16 Sat + 1 TV)	17 (16 Sat + 1 TV)
Outputs		6	12	16
SAT				
Bandwidth	MHz	950-2300	950-2300	950-2300
Gain	dB	-3	-4	-5
Maximum output level	dBµV	100 (-35dBc 2 tones)	100 (-35dBc 2 tones)	100 (-35dBc 2 tones)
Insertion loss	dB	2	3	4
TV				
Bandwidth	MHz	5-862*	5-862*	5-862*
Gain	dB	-16	-19	-21
Insertion loss	dB	5	8	10
General Parameters				
Switching control	V, KHz	14/18, 22 DISEqC 2.0	14/18, 22 DISEqC 2.0	14/18, 22 DISEqC 2.0
Power consumption	mA	60	60	60
Dimensions	mm	345x105x40	345x195x40	345x240x40
Operating temperature	°C	-20 to +60	-20 to +60	-20 to +60

*Return path included

Installation **Example**

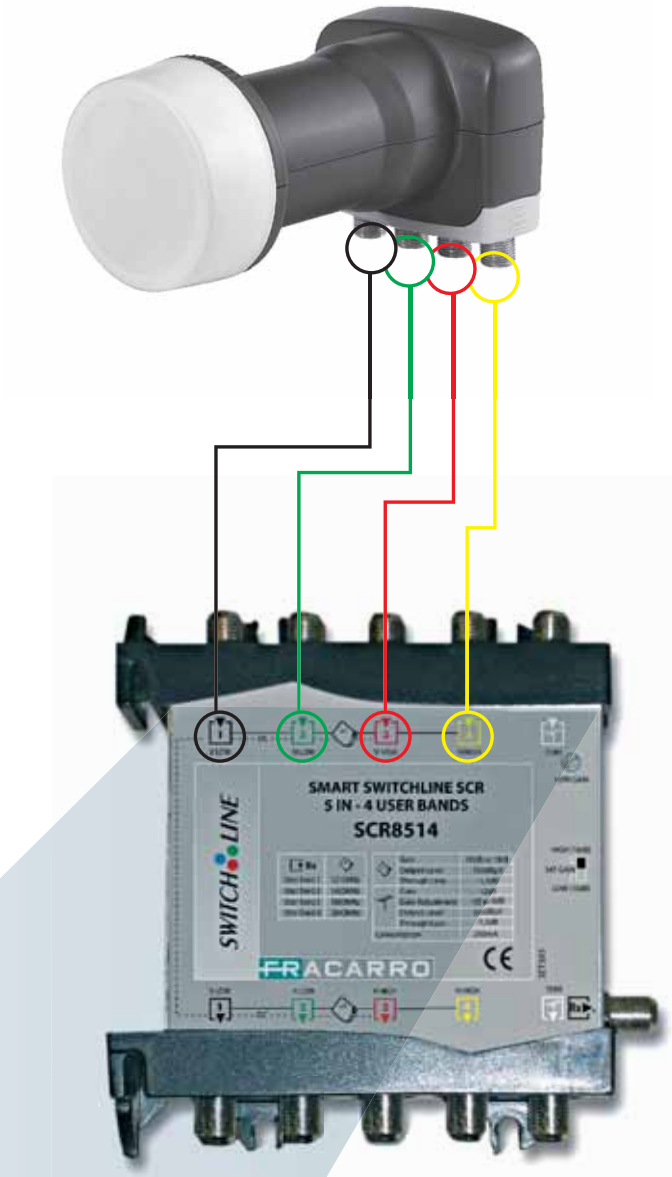


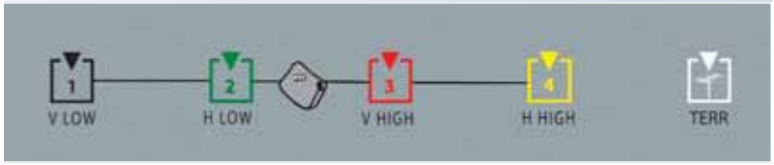


SCR

The **SCR** Multiswitches are the new frontier in signal distribution: with a single coaxial cable, it is possible to connect multiple STBs or PVRs.

This product line guarantees high quality and low loss of insertion, allowing fitting to the original installation without effecting its operation.





SCR4414, SCR8514 Series

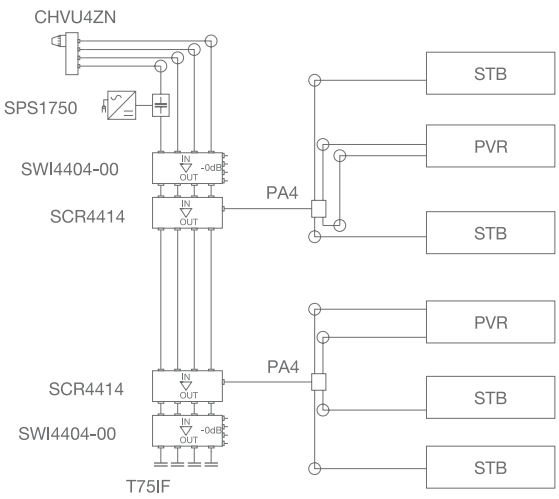
4 inputs and 5 inputs

NEW

- Multiple STBs and PVRs can be connected by a single cable
- Adjustable SAT and TV gain
- High gain for splitting compensation
- Low insertion loss
- Compact size
- Standard colour coding for easy installation

Item Code		SCR4414 271120	SCR8514 271121
Inputs		4 Sat	4 Sat + 1 TV
Outputs		1 output for 4 users	1 output for 4 users
SAT			
Output band frequency	MHz	1210, 1420, 1680, 2040	1210, 1420, 1680, 2040
Gain (tilted)	dip-switch position 1 dB	12 to 16	12 to 16
	dip-switch position 2 dB	4 to 8	4 to 8
Maximum output level	dBµV	105	105
Insertion loss	dB	1	1
TV			
Bandwidth	MHz	-	85-862
Gain	dB	-	12
Gain adjustment	dB	-	15
Maximum output level	dBµV	-	107 (-60dBc 3 tones)
Insertion loss	dB	-	1
General Parameters			
Isolation between outputs	dB	≥28	≥28
Switching control	V, KHz	SCR	SCR
Power consumption	mA	210	280
Dimensions	mm	120x120x35	120x120x35
Operating temperature	°C	-10 to +55	-10 to +55

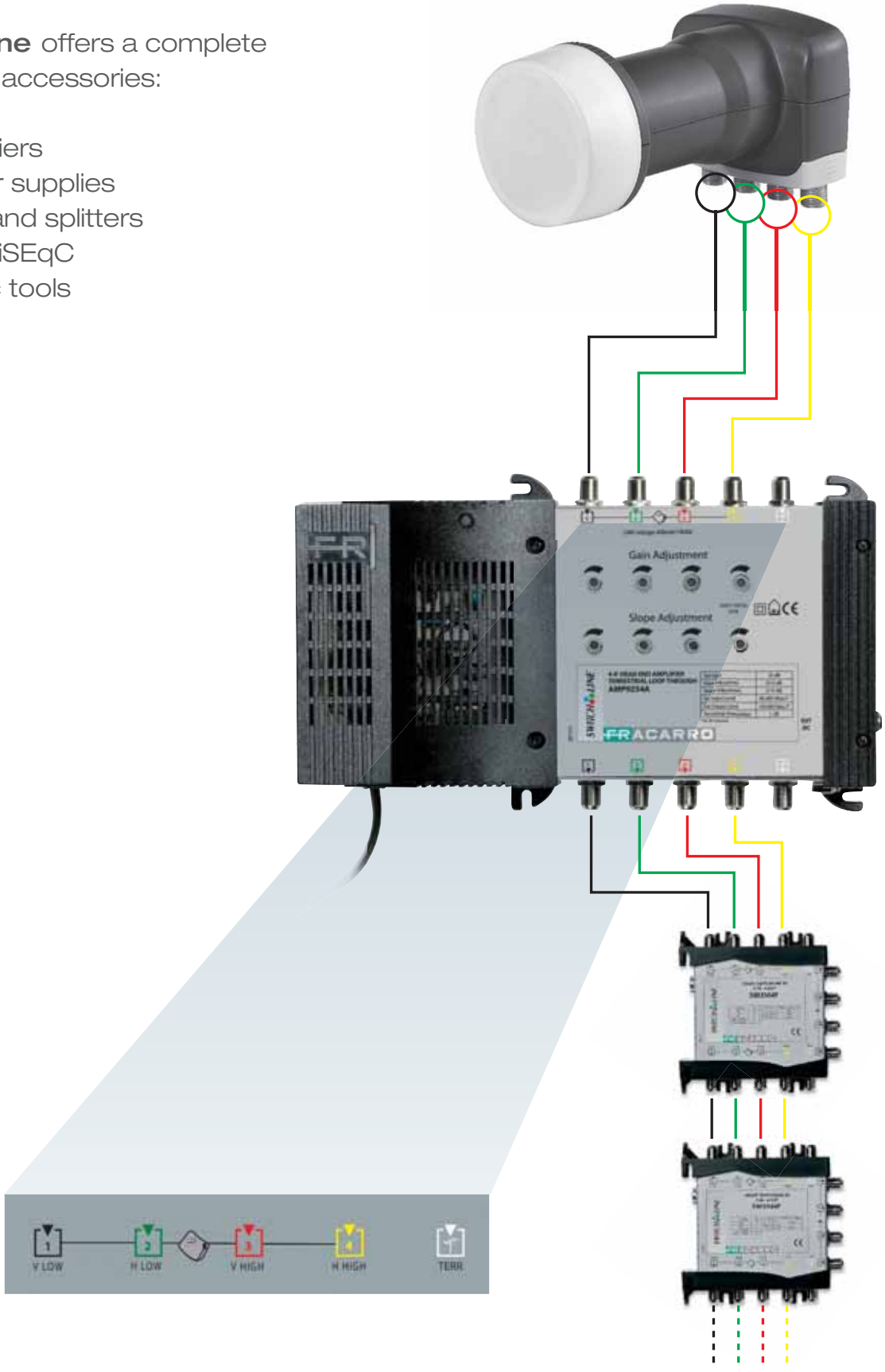
Installation **Example**



Accessories

Switchline offers a complete range of accessories:

- Amplifiers
- Power supplies
- Taps and splitters
- Mini DiSEqC
- Plastic tools



FRACARRO

AMP9254 Series

Headend amplifier with 5 inputs (4 SAT + 1 TV)

- Gain adjustment for each SAT input
- For small and medium systems
- 400mA to feed the LNB

AMP9254

AMP9254A Series

Headend amplifier with 5 inputs (4 SAT + 1 TV)

- Gain and tilt adjustment for each SAT input
- There is a connector to insert DC on lines 1 and 2
- For medium and large systems or where there is a long distance between switches
- 400mA to feed the LNB

AMP9254A

AMP9294 Series

Headend amplifier with 9 inputs (8 SAT + 1 TV)

- Gain adjustment for each SAT input
- For small and medium systems
- 600mA to feed the LNB

AMP9294

Item Code		AMP9254 271031	AMP9254A 271033	AMP9294 271032
Inputs		5 (4 Sat + 1 TV)	5 (4 Sat + 1 TV)	9 (8 Sat + 1 TV)
SAT				
Bandwidth	MHz	950-2150		
Gain	dB	19 (950MHz) 25 (2150MHz) Fixed tilt	32	20 (950MHz) 24 (2150MHz) Fixed tilt
Gain adjustment	dB	15	15	15
Tilt adjustment	dB	-	12	-
Maximum output level	dBµV	112 (-35dBc 2 tones)	116 (-35dBc 2 tones)	112 (-35dBc 2 tones)
TV				
Bandwidth	MHz	85-862		
Gain	dB	-1		
General Parameters				
Power consumption	W	16	19	20
Dimensions	mm	235x125x65	235x125x65	320x125x65
LNB power supply	mA/V	400/14	400/14	600/14

Accessories

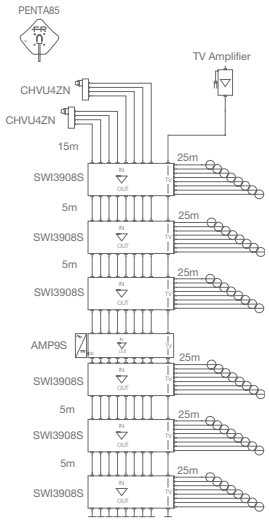
AMP9S, AMP17S Series

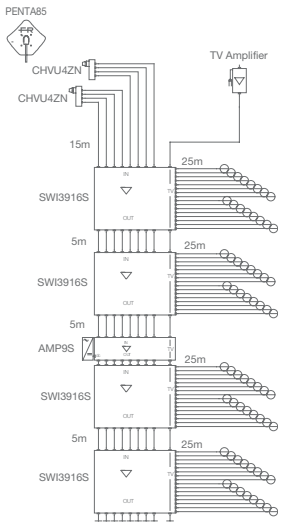
Headend amplifiers with 9 inputs (8 SAT + 1 TV) and 17 inputs (16 SAT + 1 TV)

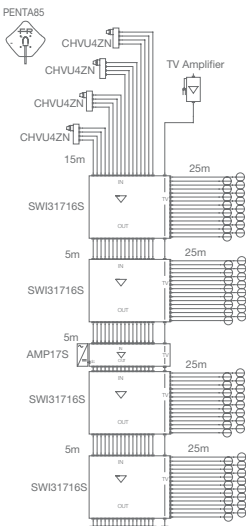
- Gain and tilt adjustment for each SAT input
- Gain adjustment for the TV input
- High maximum output level
- Bandwidth up to 2300MHz
- 1800mA to feed the LNB

Item Code		AMP9S 289778	AMP17S 289779
Inputs		9 (8 Sat + 1 TV)	17 (16 Sat + 1 TV)
SAT			
Bandwidth	MHz	47-862	47-862
Gain	dB	27	27
Gain adjustment	dB	10	10
Tilt adjustment	dB	4	4
Maximum output level	dBµV	115	115
TV			
Bandwidth	MHz	950-2300	950-2300
Gain	dB	30	30
Gain adjustment	dB	10	10
Maximum output level	dBµV	114	114
General Parameters			
LNB power supply	mA	1800	1800
Mains voltage	V, Hz	220-240, 50/60	220-240, 50/60
Dimensions	mm	350x130x90	430x130x90
Operating temperature	°C	-20 to +60	-20 to +60

Installation **Example**







FRACARRO

SWA5424 Series

Line amplifier
4 SAT inputs

- Gain and tilt adjustment for each SAT input
- For small and medium systems
- Remote power supply through SAT trunk lines 1 (V/L), 2 (H/L) and 3 (V/H)

SWA5424

SWA5414 Series

Line amplifier
4 SAT inputs

- Fixed gain
- For small systems
- Can be powered directly through the D.C. F connector or by using an external power supply connected to the trunk line 1 (V/L)

SWA5414

SWA5122 Series

Line amplifier with 2 inputs
(1 SAT + 1 TV)

- Gain and tilt adjustment on TV line
- Return path gain adjustment
- For medium and large systems
- Remote power supply through SAT trunk line

SWA5122

Item Code		SWA5424 271034	SWA5414 271036	SWA5122 271035
Inputs		4 Sat	4 Sat	2 (1 Sat + 1 TV)
SAT				
Bandwidth	MHz	950-2150	950-2150	950-2150
Gain	dB	25	12 to 16	-1
Gain adjustment	dB	15	-	-
Tilt adjustment	dB	14	-	-
Maximum output level	dBµV	116	108	-
Noise figure	dB	8	8	-
TV				
Bandwidth	MHz	-	-	85-862
Gain	dB	-	-	30
Gain adjustment	dB	-	-	15
Tilt adjustment	dB	-	-	15
Maximum output level	dBµV	-	-	116
Noise figure	dB	-	-	8
Return Path				
Bandwidth	MHz	-	-	5-65
Gain	dB	-	-	15
Gain adjustment	dB	-	-	10
Maximum output level	dBµV	-	-	106
Noise figure	dB	-	-	7
General Parameters				
Mains voltage	V	14-30	14-18	14-30
Power consumption	mA, V	320, 14	120, 14	400, 14
Dimensions	mm	198x108x30	90x90x20	198x108x30
Operating temperature	°C	-10 to +55	-10 to +55	-10 to +55

Accessories

AMP8331A Series
Power supply with DC inserter

- 14Vcc 2A output voltage
- Mains voltage 220-240V, 50/60Hz

AMP8331A
cod. AMP8331A

AMP2000 Series
Power supply with DC inserter

- 18Vcc 3A output voltage
- Mains voltage 220-240V, 50/60Hz

NEW

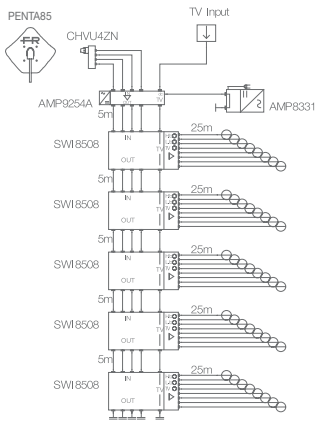
AMP2000
cod. 271140*

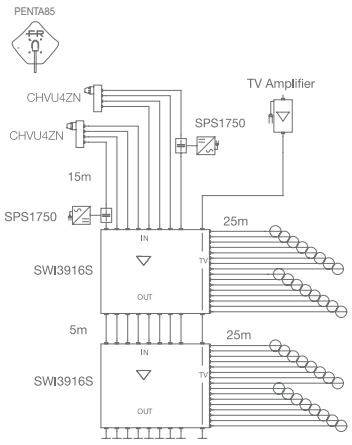
SPS1750 Series
Power supply with DC inserter

- 15Vcc 0.5A output voltage
- Mains voltage 220-240V, 50/60Hz

SPS1750
cod. 289087

Installation **Example**





* Also available with UK plug

Splitters and taps

- SWI44T15 Tap: DC pass on each trunk line
- SWI44SP2 Splitter: DC pass from output ports to input port on each polarisation
- SWI85T15 Tap: DC pass on each SAT line
- SWI85SP2 Splitter: DC pass on each SAT line
- Additional F connector for power injection on each SAT input/output
- Plastic bracket for quick and easy installation
- Standard colour coding for easy installation

NEW

4+4 Outputs

Item Code	SWI44SP2 271091	SWI44T15 271092	SWI85SP2 271094	SWI85T15 271095
Inputs	4	4	5 (4+1)	5 (4+1)
Outputs	4+4	4+4	5+5	5+5
SAT				
Bandwidth MHz	950-2150			
Gain dB	-	-16 to -13	-4.5	-12
Insertion loss dB	-4.5	-1	-	-2
TV				
Bandwidth MHz	5-862			
Gain dB	-	-	-4.5	-12
Insertion loss dB	-	-	-	-2
General Parameters				
Isolation SAT-SAT dB	≥ 30			
Isolation SAT-TV dB	≥ 30			
Operating temperature °C	-10 to +55			

Mini DiSEqC

Accessory for modular 8 SAT or 16 SAT solutions + terrestrial

Item Code	SWI1201B 271071	SWI1410B 271072	SWM1305A 271000 Kit to combine SWI35.. Multiswitches and MiniDiSEqC
Inputs SAT	2 (1 with TV mix)	2 (1 with TV mix)	
Inputs TV	0	0	
Outputs	1	1	
Insertion loss SAT dB	-1.5	-1.5	
Insertion loss TV dB	-2	-1.5	
Switching control V, KHz	DiSEqC 2.0	DiSEqC 2.0	
Power consumption mA	25	25	

Also for the Switchline multiswitches, Fracarro has extended its warranty to 4 years. Valid only in the EU. For further information visit our web site: www.fracarro.com

A339189
margraf.it

Fracarro Radioindustrie S.p.A.
via Cazzaro, 3
31033 Castelfranco Veneto (TV)
Italy
tel. +39 0423 7361
fax +39 0423 736220
www.fracarro.com
info@fracarro.com

Fracarro (UK) Ltd
Unit A.
Ibex House, Keller Close
Kiln Farm, Milton Keynes.
MK11 3LL
UK
Tel. +44(0)1908 571571
Fax +44(0)1908 571570

Fracarro Ibérica
Poligono Táctica "Ciudad
de los negocios"
C/2A, n° 4 - 46980
Paterna - Valencia
Tel. +34/961340104
Fax. +34/961340691

Fracarro France S.A.S.
7/14 rue du Fossé Blanc
Bâtiment C1
92622 Gennevilliers Cedex
France
Tel. +33 1 47283400
Fax +33 1 47283421

Fracarro Tecnologia e
Antenas de Televisao Lda
Rua Alexandre Herculano, n°1-1°B
Edifício Central Park
2795-242 Linda-a-Velha
Portugal
Tel.: +351214156800
Fax: +351214156809